

# Roadway Characteristics Inventory Program Updates

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### **Overview of Updates**

- Section Update
- Features and Characteristics
- RCI Handbook Updates
- RCI Training
- Freight and Modal Data
- Questions/Comments?

# **Program Staffing Responsibilities**

- Joel Worrell
  - Transportation Data Inventory Manager
- Judy Lenczyk
  - **Transportation Data Coordinator**
- Tina Hatcher
  - Transportation Data Application Coordinator
- Andrea Hodge
  - Statewide Quality Assurance Coordinator
- **Chris Talbot** 
  - Video Log Coordinator
- Jerry Scott
  - Freight Data Systems Coordinator













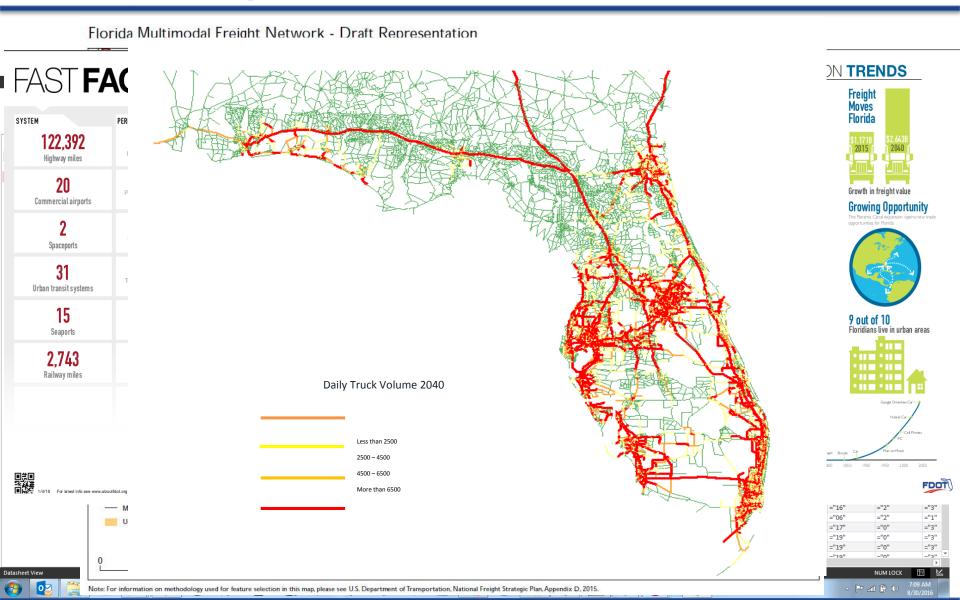
### **Quick Intro:**

This won't be long...

## **Transportation Data Inventory**

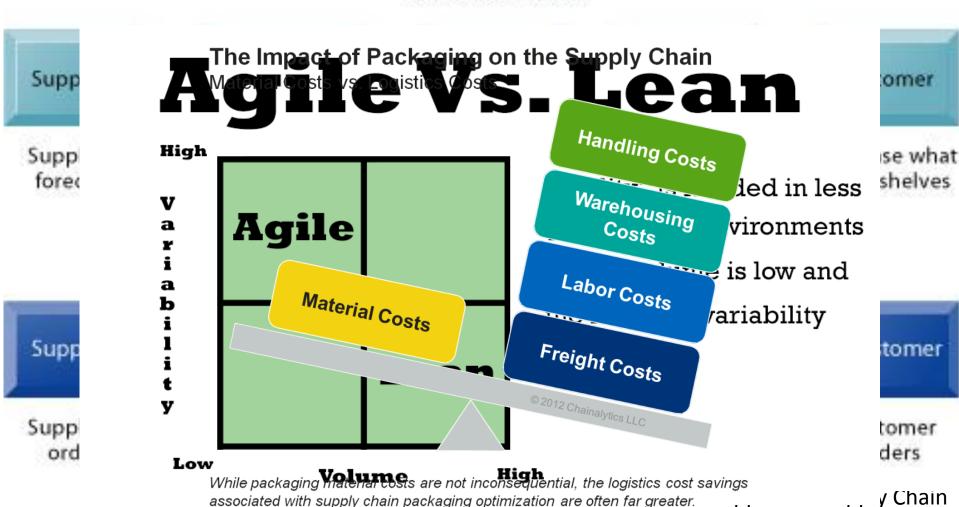
- Section Responsibilities:
  - Roadway Characteristics Inventory Database
  - Straight Line Diagrams & Programs
  - Quality Assurance Reviews
  - District Quality Evaluations
  - Quality Control Monitoring Plan
  - Video Log Program
  - Program Support Training and Handbooks
  - Freight and Modal Data Program

# Why Freight and Modal Data into RCI?



## Why Freight and Modal Data into RCI?

Push-Based Model



### **New Features Added**

#### Passenger Rail - Feature 902

RCI Features & Characteristics Handbook

Owning Office: Rail and Motor Carrier Operations

#### RRMANENT Railroad Managing Entity

Railroad Side: C Feature Type: Length Sec

Secured: Yes

Definition/Background: Identifies managing entity for railroad facilities. Effective August 2014.

Responsible Party for Data Collection: Central Rail and Motor Carrier Operations Office or Systems Planning Office. For further assistance, please contact Central Rail and Motor Carrier Operations Office at (850) 414-4500 or the SIS Transportation Planner & ETDM Coordinator at (850) 414-4907



Required For: All designated managing railroad facilities

Who/What uses this Information: Central and District Rail and Motor Carrier Operations Office

How to Measure: Record the beginning and ending milepoints.

How to Gather this Data: Enter the code value assigned to the railroad facility.

#### Codes:

Railroad Managing Entity:

0 - Non-FDOT

1 - FDOT

#### RRPASSER Railroad Passenger

Railroad Side: C

Feature Type: Length

Secured: Yes

Definition/Background: Associates with passenger system for the railroad facilities. Effective August 2014.

Responsible Party for Data Collection: Central Rail and Motor Carrier Operations Office or Systems Planning Office. For further assistance, please contact Central Rail and Motor Carrier Operations Office at (850) 414-4500 or the SIS Transportation Planner & ETDM Coordinator at (850) 414-4907



Who/What uses this Information: Central and District Rail and Motor Carrier Operations Office

Required For: All designated SIS, emerging SIS, and non-SIS railroad facilities

How to Measure: Identify the owning authority (see below) and record the beginning and ending milepoints.

How to Gather this Data: Enter the railroad company name (RRCONAME) codes assigned to the railroad facility. Reference Feature 901 for the railroad company name code values.

#### Codes:

SUNRL – SunRail AAFL – All Aboard Florida AMTK – Amtrak TRIRL – Tri-Rail

#### Railroad Passenger Station Name - Feature 903

RCI Features & Characteristics Handbook

Owning Office: Rail and Motor Carrier Operations

#### RPASTNAM Railroad Passenger Station Name

Railroad Side: C

Feature Type: Point

Secured: Y

Definition/Background: Identifies passenger rail stations on the rail system in Florida, including SIS rail network and those not on the SIS rail network. These include passenger stations on the Tri-Rail Commuter Rail system, and the Sun Rail Commuter Rail system, which are considered urban fixed guideway transit hubs and stations on the SIS rail network; this feature also includes the AMTRAK stations on the rail system in Florida. Some of these are also considered Intermodal Passenger Terminals on the SIS rail network. This feature may also include future undefined passenger rail stations on other systems in Florida.



Responsible Party for Data Collection: Central Rail and Motor Carrier Operations Offices or Systems Planning Office. For further assistance, please contact Central Rail and Motor Carrier Operations Offices at (850) 414-4500 / or the SIS Transportation Planner & ETDM Coordinator at (850) 414-4907

Who/What uses this Information: Central Rail and Motor Carrier Operations Offices, or District Rail and Motor Carrier Operations Offices, Systems Planning and Policy Planning Offices for the eSIS application, District Planning Offices, District Maintenance Offices, and South Florida Rail Corridor Management Office

Required For: All passenger rail stations in Florida

How to Measure: Identify the station names, see below and record the milepoint

How to Gather this Data: Enter the railroad station name, RSTATNAM codes assigned to the station location. Reference Feature 901 for the railroad roadway ID.

#### Codes:

ALTA - Altamonte Springs Sun Rail Station BOCA - Boca Raton Tri-Rail Station BOYN - Boynton Beach Tri-Rail Station CHCH - Church Street Sun Rail Station CYPC - Cypress Creek Tri-Rail Station DEB – DeBary Sun Rail Station DEER - Deerfield Beach Amtrak/Tri-Rail DELB - Delray Beach Amtrak/Tri-Rail Station FLHH - FL Hospital Health Village Sun Rail FTL - Fort Lauderdale Amtrak/Tri-Rail FLAP - Ft Laudale/Hollywood Airport Tri-Rail GG - Golden Glades Tri-Rail Station HIAL - Hiakah Market Tri-Rail Station HWD - Hollywood Amtrak/Tri-Rail Station KISS – Kissimmee Intermodal Center SunRail MARY - Lake Mary Sun Rail Station LKW - Lake Worth Tri-Rail Station

LONG – Longwood Sun Rail Station
LYNX – LYNX Central Sun Rail Station
MAIT – Maitland Sun Rail Station
MANG – Mangonia Park Tri-Rail Station
MEAW – Meadow Woods Sun Rail Station
MIC – Miami Intermodal Center
OPA – Opa Locka Tri-Rail Station
ORLA – Orlando Health Sun Rail Station
ORLA – Orlando Health Sun Rail Station
OOSC – Osceola Parkway Sun Rail Station
POIN – Poinciana Sun Rail Station
POIN – Pompano Beach Tri-Rail Station
SAND – Sand Lake Road Sun Rail Station
SAND – Sand Lake Road Sun Rail Station
SANF – Sanford Sun Rail Station
SHER – Sheridan Street Tri-Rail Station
TRM – Tri-Rail Meteronial Transfer Station

WPR - West Palm Beach Intermedal Center

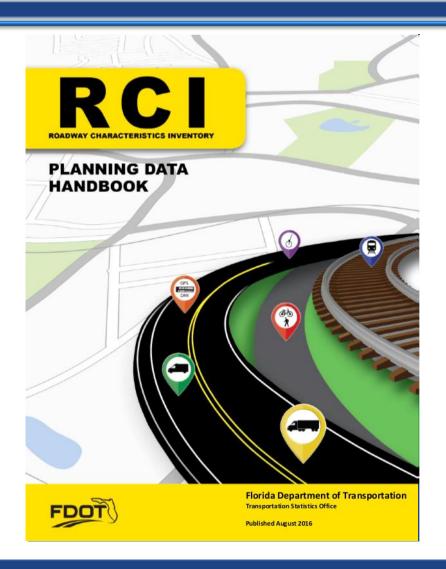
WINP - inter Park Sun Rail Station

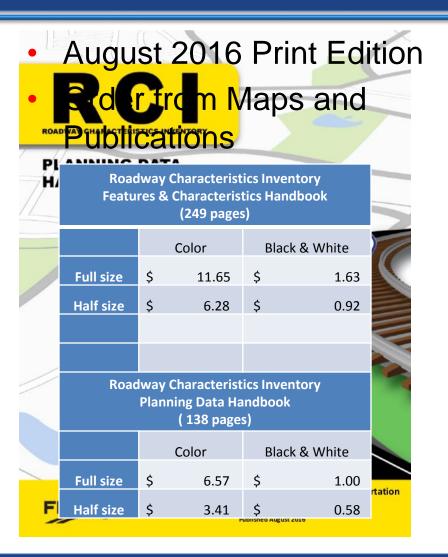
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### **New Characteristics Added**

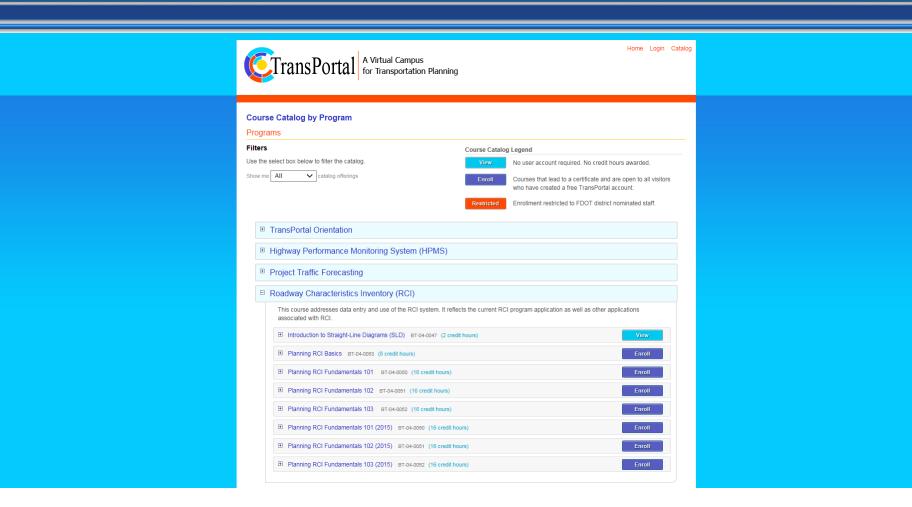
- Feature 258 Structures
  - Tunnel Number TUNNELNO
- Feature 341 Lighting System
  - Owner of Local Luminaries LOCOWNER
- Feature 413 Landscape Area
  - Bold Landscaping BOLDAND











http://transportal.org/index.cfm?fuseaction=catalog.publicView#

## Freight and Modal Data Program

ENHANCING FLORIDA'S FREIGHT ECONOMY
THROUGH MULTIMODAL DATA AND INFORMATION RESOURCES

### GOAL 1:

Establish consistency & effective data access, collection, & reporting of freight and modal data.

### GOAL 2:

Integrate Freight & Modal Data Resources in FDOT Operations & Planning Offices.

### GOAL 3:

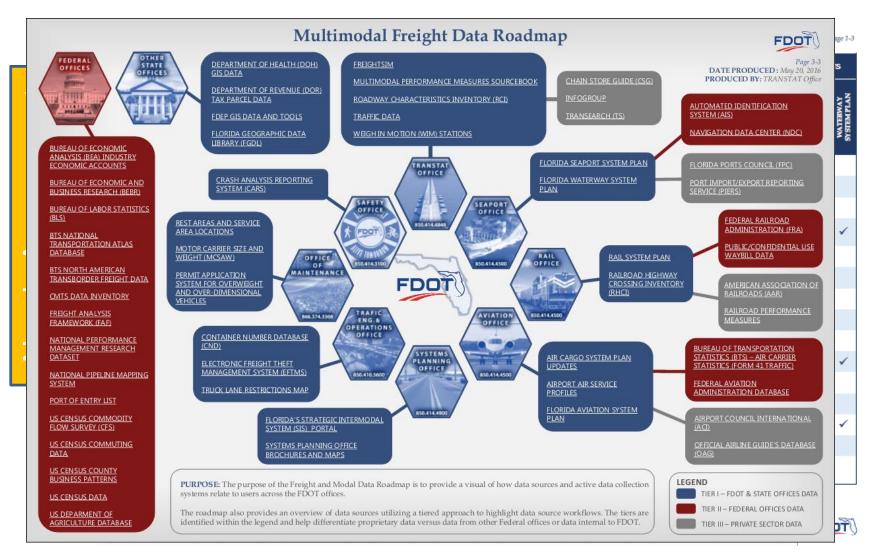
Coordinate Department Data Investments & Improvements.

### GOAL 4:

Provide Training & Awareness of Data, Datasets, Tools, & Models.



## **Multimodal Freight Data Inventory**



Reference NCFRP Report 35, Implementing the Freight Transportation Data Architecture: Data Element Dictionary.

### **Commodity Flow Data Analysis**

USER GUIDANCE

FIGURE 4-3: MIAMI-DADE COUNTY TRANSEARCH AND FAF ZONES AND TONNAGE DATA CONTINUED

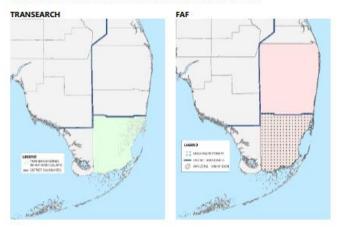
#### FIGURE 4-2: DISTRICT FIVE TRANSEARCH AND FAF ZONES AND TONNAGE DATA CONTINUED ...

Mode of Transportation	TOTAL DISTRICT 5 TONS					
	ENTERING ORLANDO MEYRO AREA		LEAVING ORLANDO METRO AREA		Witten	
	FROM THE REST OF FLORIDA	FROM THE REST OF THE COUNTRY	TO THE REST OF FLORIDA	TO THE REST OF THE COUNTRY	DISTRICT 5	
Truck	36,548,281	8,777,884	32,768,890	3,273,693	72,078,927	153,447,674
Rail	51,789	1,865,737	45,070	439,720	3,451	2,405,766
Water	3	71,497	7	1,490	0	72,996
Air (incl. Truck-Air)	1,111	21,700	10	7,630	0	30,450
Multiple Modes & Mail	1,130,746	1,134,350	72,672	96,096	54,061	2,487,925
Pipeline	30	3,537,239	7	1,799	0.	3,539,076
Other and Unknown	162,568	179,230	188,172	90,026	808,546	1,428,541
Total, All Modes	37,894,527	15,587,637	33,074,827	3,910,452	72,944,985	163,412,427

#### 413 MIAMI-DADE COUNTY

Figure 4-3 shows that the TRANSEARCH data can be summarized to Miami-Dade County according to the county boundaries. The FAF zone for this area, however, covers three counties: Miami-Dade, Broward and Palm Beach Counties. This section illustrates a common technique used to apportion commodity flow data from a larger geography to a smaller geography.

FIGURE 4-3: MIAMI-DADE COUNTY TRANSEARCH AND FAF ZONES AND TONNAGE DATA



TRANSEARCH DATA Truck 7,455,742 40,242,986 9 770 514 11 939 057 2 496 743 8 580 930 Truckload Truck L-T-L 171,143 586 204 337,433 208 190 71,080 1,374,050 Truck Truck PVT 6,985,597 4,686,192 12,880,078 1,342,523 32,585,732 Truck NEC 0 183 243 0 178 254 361,497 Subtotal 14,612,482 15,226,153 4,225,710 74,564,265 212,747 7,778 Subtota 212,747 7,778 220,525 158,220 2,870,199 65,757 49,134 3,222,566 Subtota 158,220 2,870,199 49,134 79,256 3,222,566 1.485 78 971 344 33.902 114 702 0 Subtotal 344 1.485 78.971 33,902 114,702 Foreign

64

149

213

0

258

258

4,316,783 15,422,607

#### **FAF DATA** LEAVING MIAMI METRO AREA Truck 17,207,193 Rail Water 3,826,209 6,916,215 Air (incl. Truck-Air) 391 115,306 511 37,460 153,668 Multiple Modes & 733.658 2.672.718 6.811.676 1.113.737 14.123.163 2,791,375 Mail 8,648,827 Pipeline 92 8.630.802 17.917 Other and Unknown 148,144 436.057 200.383 1.130.313 4.173,496 6.088.393 Total, All Modes 19,619,536 35,179,600 31,633,832 23,214,489 189,433,029 299,080,485

One basic apportionment method involves using employment, population, or other data that reflect the amount of activity in an area. More detailed categories of data can be used such as manufacturing and transportation employment. For this example, total estimated employment for year 2013 (source: Census Quickfacts) is used to apportion the FAF 2012 provisional estimates from the FAF Miami region to Miami-Dade County. Table 4-1 demonstrates this common, basic method of apportioning the regional total to counties based on the percentage of employment in each county. Using this method, an estimate of FAFbased tons in Miami-Dade County is 133,944,935 annual tons. If needed, the user now can present two estimates of commodity flows for Miami-Dade County (78,122,529 tons from TRANSEARCH and 133,944,935 tons using FAF) provided that these estimates are accompanied with the necessary caveats regarding dataset differences and data limitations.

SWOT ANALYSIS OF FAF AND TRANSEARCH DATA, MARCH 2016

Other

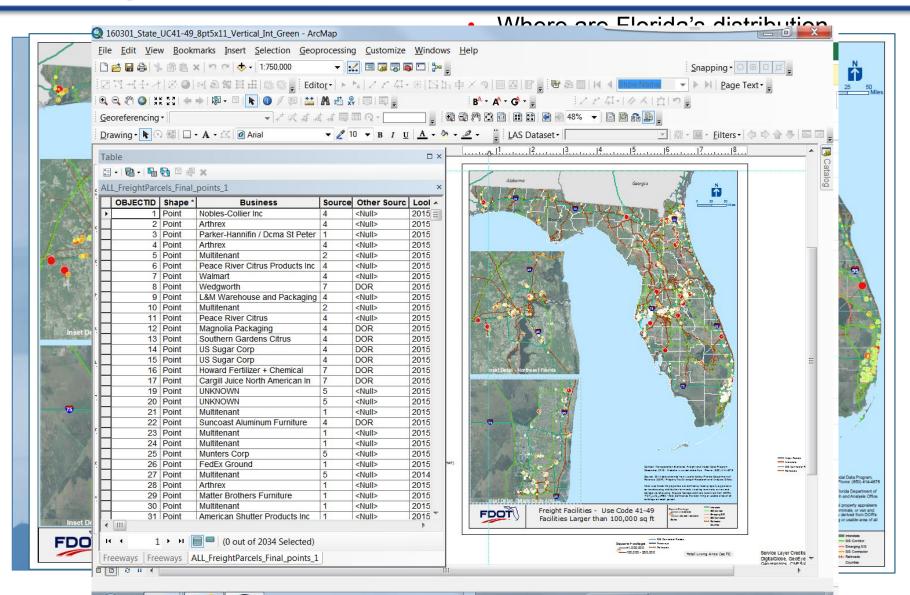
Total, All Modes

USER GUIDANCE

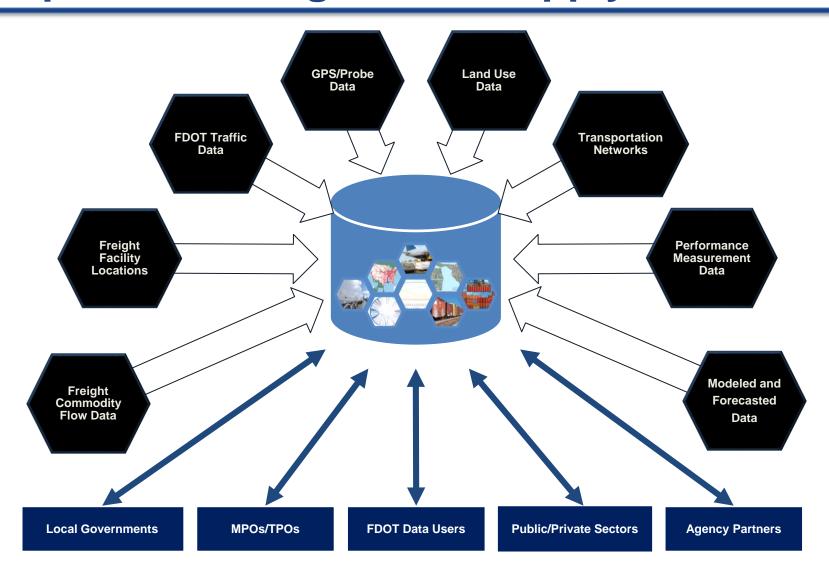
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# **Freight Facility Dataset**



## **Optimized Freight Data Supply Chain**



### **Questions/Comments?**

### FOR ADDITIONAL INFORMATION





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